AUTHOR INDEX

VOLUME 64

Andersson, S. G. E., 786

Baker, T. S., 237 Beerntsen, Brenda T., 115 Berger, Shelley L., 435 Bharadwaj, Girish, 461 Bhat, Mahalingeshwara K., 461 Black, Michael W., 607 Bolhuis, Albert, 515 Boothroyd, John C., 607 Bron, Sierd, 515 Broughton, William J., 180 Bull, Alan T., 573

Chang, Howard Y., 821 Chilcott, Gavin S., 694 Christensen, Bruce M., 115 Colwell, Rita R., 69 Contamine, Véronique, 281

Davey, Mary Ellen, 847 Davis, Bernard D., 1 Dunwell, Jim M., 153

Fuller, S. D., 237

Gale, Michael, Jr., 239 Gane, Paul J., 153 Goodfellow, Michael, 573

Hirano, Susan S., 624 Horikoshi, Haruko, 725 Horneck, Gerda, 548 Hughes, Kelly T., 694

Ibba, Michael, 202 Ikuta, Kazuyoshi, 725

James, Anthony A., 115 Jongbloed, Jan D. H., 515

Katze, Michael G., 239 Khuri, Sawsan, 153 Konings, Wil N., 672 Kües, Ursula, 316 Kurland, C. G., 786

Leitch, Andrew R., 138 Lewis, Kim, 503 Lolkema, Juke S., 13 Luftig, Ronald B., 725 Lyles, Douglas S., 709

Maheshwari, Ramesh, 461, Mason, William S., 51 Melosh, Henry J., 548 Mukai, Tetsu, 725 Munakata, Nobuo, 548 Murray, Noreen E., 412

Nicholson, Wayne L., 548 Nielsen, Jens, 34

Olsen, Gary J., 202 Olson, N. H., 237 Olsson, Lisbeth, 34 Ostergaard, Simon, 34 O'Toole, George A., 847

Perret, Xavier, 180 Picard, Marguerite, 281 Putman, Monique, 672

Rombaut, Geert, 655

Saier, Milton H., Jr., 354

Saupe, Sven J., 489 Seeger, Christoph, 51 Setlow, Peter, 548 Söll, Dieter, 202 Sorgeloos, Patrick, 655 Staehelin, Christian, 180 Sterner, David E., 435 Suzuki, Satoko, 725

Tan, Seng-Lai, 239 Tjalsma, Harold, 515

Upper, Christen D., 624

van Dijl, Jan Maarten, 515 van Geest, Marleen, 13 van Veen, Hendrik W., 672 Verschuere, Laurent, 655 Verstraete, Willy, 655

Ward, Alan C., 573 Woese, Carl R., 202 Wommack, K. Eric, 69

Yang, Xiaolu, 821

AUTHOR INDEX

VOLUME 64

Andersson, S. G. E., 786

Baker, T. S., 237 Beerntsen, Brenda T., 115 Berger, Shelley L., 435 Bharadwaj, Girish, 461 Bhat, Mahalingeshwara K., 461 Black, Michael W., 607 Bolhuis, Albert, 515 Boothroyd, John C., 607 Bron, Sierd, 515 Broughton, William J., 180 Bull, Alan T., 573

Chang, Howard Y., 821 Chilcott, Gavin S., 694 Christensen, Bruce M., 115 Colwell, Rita R., 69 Contamine, Véronique, 281

Davey, Mary Ellen, 847 Davis, Bernard D., 1 Dunwell, Jim M., 153

Fuller, S. D., 237

Gale, Michael, Jr., 239 Gane, Paul J., 153 Goodfellow, Michael, 573

Hirano, Susan S., 624 Horikoshi, Haruko, 725 Horneck, Gerda, 548 Hughes, Kelly T., 694

Ibba, Michael, 202 Ikuta, Kazuyoshi, 725

James, Anthony A., 115 Jongbloed, Jan D. H., 515

Katze, Michael G., 239 Khuri, Sawsan, 153 Konings, Wil N., 672 Kües, Ursula, 316 Kurland, C. G., 786

Leitch, Andrew R., 138 Lewis, Kim, 503 Lolkema, Juke S., 13 Luftig, Ronald B., 725 Lyles, Douglas S., 709

Maheshwari, Ramesh, 461, Mason, William S., 51 Melosh, Henry J., 548 Mukai, Tetsu, 725 Munakata, Nobuo, 548 Murray, Noreen E., 412

Nicholson, Wayne L., 548 Nielsen, Jens, 34

Olsen, Gary J., 202 Olson, N. H., 237 Olsson, Lisbeth, 34 Ostergaard, Simon, 34 O'Toole, George A., 847

Perret, Xavier, 180 Picard, Marguerite, 281 Putman, Monique, 672

Rombaut, Geert, 655

Saier, Milton H., Jr., 354

Saupe, Sven J., 489 Seeger, Christoph, 51 Setlow, Peter, 548 Söll, Dieter, 202 Sorgeloos, Patrick, 655 Staehelin, Christian, 180 Sterner, David E., 435 Suzuki, Satoko, 725

Tan, Seng-Lai, 239 Tjalsma, Harold, 515

Upper, Christen D., 624

van Dijl, Jan Maarten, 515 van Geest, Marleen, 13 van Veen, Hendrik W., 672 Verschuere, Laurent, 655 Verstraete, Willy, 655

Ward, Alan C., 573 Woese, Carl R., 202 Wommack, K. Eric, 69

Yang, Xiaolu, 821

SUBJECT INDEX

VOLUME 64

Acetylation histones, 435 AIDS HIV protease, 725 Aminoacyl-tRNA synthetases evolution, 202 Antibiotics multidrug transporters, 672 programmed death in bacteria, 503 Apoptosis caspases, 821 programmed death in bacteria, 503 RNA viruses, 709 Aquatic environments probiotics in aquaculture, 655 search and discovery strategies, 573 virioplankton, 69

mitochondrial DNA, 281 Bacillus subtilis cupins, 153 resistance of endospores, 548 secretome, 515 Bacteriophages virioplankton, 69 Biocontrol probiotics in aquaculture, 655 Biodiversity bioinformatics, 573 Biofilms molecular genetics, 847 programmed death in bacteria, 503 **Bioinformatics** search and discovery strategies, 573 Biotechnology cupin proteins, 153

S. cerevisiae, 34 search and discovery strategies, 573 Calcium signaling T. gondii, 607 Caspases functions and regulation, 821 Cell differentiation interphase nuclei, 138 Chromatin histone acetylation, 435 Chromosome type I restriction systems, 412 Conservation bioinformatics, 573 Coprinus cinereus life cycle, 316 Cupin proteins

B. subtilis, 153 evolution, 153 Cytopathogenesis RNA viruses, 709 Development

C. cinereus, 316 fungi signal transduction cascades, 746 programmed death in bacteria, 503 Discovery strategies bioinformatics, 573

Ecology biofilms, 847 Epiphytic bacteria P. syringae, 624 Escherichia coli
flagellar assembly, 694
Evolution
aminoacyl-tRNA synthetases, 202
cupin proteins, 153
mitochondrial proteome, 786
rhizobia, 180
Exploitable biology
bioinformatics, 573
Extraterrestrial environments
B. subtilis, 548
Extreme environments

Filamentous fungi heterokaryon incompatibility, 489 Flagella E. coli, 694 S. enterica, 694 Fungi filamentous, 489 signal transduction cascades, 746

B. subtilis, 548

thermophilic, 461

Hepatitis B virus biology of, 51 Heterokaryons incompatibility N. crassa, 489 P. anserina, 489 Histones acetylation, 435 HIV protease development of inhibitors, 725 role in pathogenesis, 725

Ice nucleation
P. syringae, 624
Influenza viruses
cytopathogenesis, 709
translation of mRNA, 239
Interphase nuclei
higher levels of organization, 138

Leaf ecosystem
P. syringae, 624

C. cinereus, 316 Membranes insertion of proteins, 13 topology, 13 transmembrane transporters, 354 Metabolism S. cerevisiae, 34 Mitochondria evolution, 786 maintenance and integrity of DNA, 281 Mosquitoes genetics of vector competence, 115 Motility T. gondii, 607 mRNA translation in eukaryotes, 239 Multidrug transporters molecular properties, 672

Neurosopora crassa heterokaryon incompatibility, 489 Nitrogen fixation rhizobium-legume symbiosis, 180 Nomenclature transmembrane transporters, 354 Nucleus interphase, 138

Pathogenesis biofilms, 847 caspases, 821 hepatitis B virus, 51 HIV protease, 725 mosquito genetics, 115 P. syringae, 624 RNA viruses, 709 translation of viral mRNA in eukaryotes, virioplankton, 69 Philosophy of science, 1 Picornaviruses cytopathogenesis, 709 Podospora anserina heterokaryon incompatibility, 489 Polyploidy nuclear differentiation, 138 Probiotics aquaculture, 655 Proteases

Repair of DNA
B. subtilis, 548
Restriction systems
type I, 412
Rhabdoviruses
cytopathogenesis, 709
Rhizobia
symbiotic promiscuity, 180
RNA viruses
cytopathogenesis, 709

caspases, 821

Pseudomonas syringae

leaf ecosystem, 624

HIV, 725

Public policy, 1

Saccharomyces cerevisiae metabolic engineering, 34 mitochondrial DNA, 281 petite mutants, 281 Salmonella enterica flagellar assembly, 694 Science philosophy of, 1 public policy, 1 Search strategies bioinformatics, 573 Secretion B. subtilis, 515 thermophilic fungi, 461 Signal peptides B. subtilis, 515 Signal transduction cascades fungal development, 746 Space travel B. subtilis, 548 Spores B. subtilis, 548 Symbiosis rhizobia, 180

Thermophilic fungi enzymes, 461 physiology, 461 Topology membranes, 13 Toxoplasma gondii lytic cycle, 607 Transcription histone acetylation, 435 inhibition by RNA viruses, 709 Translation inhibition by RNA viruses, 709

viral mRNA in eukaryotes, 239
Transport
inhibition by RNA viruses, 709
multidrug transporters, 672
signal peptide dependent
B. subtilis, 515
transmembrane solute
transporters, 354

Vectors
mosquito genetics, 115
Virioplankton
ecology, 69
pathogenesis, 69
Virulence
fungi
signal transduction cascades, 746

